



Legionella Prevention Policy Hearing
PA Senate Democratic Policy Committee Hearing, co-hosted by Senator Fontana & Senator Kane

Hearing date: 5/5 10:00-12:00

BIOGRAPHIES PROVIDED:

Dr. Hung Cheung, MD, MPH, FACOEM, President Cogency Solutions, CDC Affiliated

As one of the nation's foremost experts in his field, Dr. Cheung has led hundreds of environmental and toxicological investigations, protecting thousands of occupants and saving organizations millions of dollars.

"My philosophy is preventive," he says. "Organizations need to design and develop policies that help prevent exposures, injuries and illnesses. Once we discover the root cause of a problem – using good science – we can create an action plan to prevent it from happening again."

A former Maryland State Medical Director, he is a faculty member at the University of Pennsylvania, Perelman School of Medicine. As a Fellow of the American College and Environmental Medicine, he is nationally recognized as an expert in Respiratory Environmental Medicine, Plant and Indoor Environmental Quality, Risk Communication and Medical Advisory Services. Board Certified in both Internal Medicine and Preventive Medicine, he holds a Master's in Public Health from Johns Hopkins and has a medical degree from the University of Maryland.

Dr. Cheung currently serves on the Advisory Panel for the Johns Hopkins Bloomberg School of Hygiene and Public Health's summer Institute run by Department of Environmental Health Sciences and Board of Directors for Healthy Housing Solutions, Inc. Dr. Cheung is an adjunct assistant professor at the University of Pennsylvania Perelman School of Medicine where he co-chairs of the environmental health and risk assessment educational modules and teaches outbreak investigation to Occupational and Environmental Medicine Residents at the Medical Institution.

He is in demand as a lecturer in prevention and remediation, as a scientific expert in legal and administrative proceedings, and has provided expert technical testimony to legislatures. Such activities include serving with the Maryland Governor's Task Force on Indoor Air Quality, the Baltimore City Healthy Homes Advisory Board and completing a major epidemiological investigational study for the Department of Defense.

**Dr. Janet Stout, Ph.D., President, Special Pathogens Laboratory
Research Associate Professor, University of Pittsburgh, Swanson School
of engineering**

Dr. Janet E. Stout is president and director of Special Pathogens Laboratory, and research associate professor at the University of Pittsburgh Swanson School of Engineering in the Department of Civil and Environmental Engineering. An infectious disease microbiologist, Dr. Stout is recognized worldwide for seminal discoveries and pioneering research in Legionella. Her expertise includes prevention and control strategies for Legionnaires' disease in building water systems. Dr. Stout's more than 30 years of research is published in peer-reviewed medical and scientific journals. She also has authored textbook chapters on Legionella and Legionnaires' disease, including the Legionella chapter in the APIC Text. An advocate for prevention, Dr. Stout assisted in developing the first Legionella prevention guideline (1993) in the United States, which continues to serve as a model for national and global health agencies and organizations. Additionally, she serves on the ASHRAE Legionella standard committee for Legionella Guideline 12 and the SPC 188 committee for ANSI / ASHRAE Standard 188-2015 Legionellosis: Risk Management for Building Water Systems, the first U. S. standard for Legionella risk management. She is the first certified instructor of the ASSE 12080 Legionella Water Safety and Management Specialist Certification training

**Dr. Richard Miller, Co-Founder/President/Chief Scientific Officer at Environmental Safety
Technologies, Inc**

Environmental Safety Technologies, Inc (EST) was founded by Dr. Richard Miller and co-founder Shauna Weis. For over 25 years EST has provided clients with top-of-the-line Legionella testing services on building water systems, for validating the control of Legionella proliferation in the building water in accordance with ANSI/ASHRAE Legionella Standard 188-2015 and the CDC Toolkit: Developing a Water Management Program to Reduce Legionella Growth and Spread in Buildings (2017).

In addition to Dr. Miller's 25 years with EST, he has over 40 years of experience in working with Legionella. It all started with his research program at the University of Louisville in the fall of 1977, when the Legionnaires' disease bacterium had only been recently isolated by CDC several

months earlier, and it didn't even have a name yet. Once it was reported that the transmission of Legionnaires' disease was from environmental aquatic habitats (replicating within free-living amoebae), Dr. Miller received personal training in Legionella environmental culture at the CDC from Legionella pioneers Dr. Jim Feeley and George Gorman. Over those 40 years, Dr. Miller acquired experience via: 1) laboratory research unraveling the physiology, metabolism, and pathogenesis of this bacterium, 2) Legionella testing of cooling towers, potable water, whirlpool spas and decorative fountains for growing list of clients, and finally, 3) teaching Legionnaires' disease (and more than 30 other bacterial and fungal infectious diseases lecture topics) to the medical students at the University of Louisville. With this experience, there is not much about Legionella or Legionnaires' disease (or medical microbiology more broadly) that Dr. Richard Miller does not know something about.

Over that time period, Dr. Miller's Legionella expertise was also put to use by ASHRAE, serving as a voting member on the ASHRAE Committee that developed the Legionella Guideline 12-2000. Dr. Miller then followed that up with service as a voting member on the Legionella ANSI/ASHRAE Standard 188-2015 committee.

As a consequence of Dr. Miller's broad microbiology knowledge and experience, this feature of the EST web site provides an opportunity for everyone to take advantage of that microbiological wisdom, to ask Dr. Miller questions that may cover a broad range of microbiology topics, including Legionella and Legionnaires' disease, of course. In addition to all other infectious diseases (especially those that are water-borne diseases), Dr. Richard Miller has knowledge of and has given lectures on, biofilm formation and biofouling processes, microbial-induced corrosion, biofouling detection, and control.

Dr. Miller has a passion for teaching and loves answering your questions about Legionella. His passion for teaching and thorough understanding of Legionella can be seen in the many awards Dr. Miller has received over the years. You can see some of those accomplishments listed below from students, faculty and the Dean's office at of the School of Medicine at the University of Louisville School of Medicine.

Do you have challenging Legionella questions? We have created a special Stump **Dr. Legionella** ([Legionella Questions and Answers - Ask Us Anything Here \(estechlab.com\)](http://estechlab.com)) page and you can ask us anything by clicking here. We encourage everyone to do their best to Stump Dr. Legionella!

Patsy Root, Regulatory Affairs Manager, IDEXX Water

Ms. Root works with world-wide government agencies on microbiological method standards, laboratory standards and accreditation and national and international regulatory approvals and compliance. She is involved in both industry and Federal groups to promote public and environmental health objectives including:

- ASHRAE SSPC 188 Participant in the development of the standard :2015 Legionellosis: Risk Management for Building Water Systems
- American Public Health Laboratories (APHL): Environmental Laboratory Sciences
- NSF: on NSF-444; Prevention of Injury and Disease Associated with Building Water Systems
- TNI (The NELAC Institute), Board of Directors, Policy Committee Chair
- American Water Works Association
- Canadian Water Works Association Board member of the Drinking Water Committee

Lisa Daniels, Director of the Bureau of Safe Drinking Water, PA DEP

Lisa Daniels is the Chief of the Division of Operations Monitoring and Training within the Bureau of Water Standards and Facility Regulation. The Compliance, Training, and Filter Plant Programs sections are all under her new oversight responsibilities. Her job duties include developing drinking water regulations and guidance; coordinating primacy obligations with EPA; and overseeing the surveillance, compliance, and enforcement components of the drinking water program. Lisa has been with the Department of Environmental Protection (DEP) since 1989. She has a Bachelor of Science degree in biology from Penn State University and spent time working in an environmental laboratory before starting her career with the commonwealth. Before becoming division chief, Lisa was chief of the Operations Section and spent many years developing and delivering training on numerous drinking water topics. Lisa started her DEP career as a sanitarian working out of the York District Office in southcentral Pennsylvania

Serena DiMagno, Chair of Legislative & Regulatory Affairs, Water Works Operators' Association Pennsylvania (WWOAP)

Serena DiMagno has over 48 years of experience in the water and wastewater sectors. Although semi-retired, she is currently a Senior Environmental Consultant for the SSM Group, Inc. She is a graduate of Chatham University. She has received The Water Works Operators' Association of Pennsylvania Ivan M. Glace, Harry J. Krum, and Fred G. Eckardt Awards and is a Past-President of the Association. DiMagno has also received the American Water Works Association George Warren Fuller Award for distinguished service to the water supply field, as well as a special recognition award for her contributions to the betterment of

the water supply industry. She currently serves as the Chairman of the Pennsylvania Department of Environmental Protection Agency's Small Systems Technical Advisory Committee (TAC Board), member of the Pennsylvania Water Utility Council and is the Chairman of the Legislative and Regulatory Affairs for the Water Works Operators' Association of Pennsylvania.

**Thomas Bigley, Thomas Bigley, UA Director of Plumbing and Chair of the World Plumbing Council,
United Association of Union Plumbers & Pipefitters**

Mr. Bigley is on the Executive Board of the World Plumbing Council as UA Director. He has over 20 years of experience in the field and served the Allegheny County and Pittsburgh areas as a business manager of Pittsburgh Plumbers Local 27.